

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18 Stylesheet Version v18.0

> Title of Invention

Methods of Manipulating and Sequencing Nucleic Acid Molecules Using Transposition and Recombination

Application Number:

09/695065

Confirmation Number:

1682

First Named Applicant:

Michael Brasch Attorney Docket Number: 0942.5000001

Search string:

(4683195 or 4683202 or 4965188 or 5093257

or 5102797 or 5159062 or 5286632 or 5334375 or 5334575 or 5378618 or 5527695 or 5605793 or 5650308 or 5650557 or 5728551 or 5801030 or 5814300 or 5837458 or 5929307 or 5962255 or 5981177 or 6080576 or 6143557 or 6225121

or 6262341 or 6270969 or 6271436 or 6277608 or 6361972 or 6365377 or 6410266 or 6410317

or 6436707 or 20020007051 or

20030027337).pn.

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

in	it][Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
-1		1	4683195	1987-07-28	Mullis et al.			
		2	4683202	1987-07-28	Mullis			
		3	4965188	1990-10-23	Mullis et al.	,		
		4	5093257	1992-03-03	Gray, G.L.			
		5	5102797	1992-04-07	Tucker et al.			
		6	5159062	1992-10-27	Knapp et al.			
		7	5286632	1994-02-15	Jones, D.H.	-		
	π	8	5334375	1994-08-02	Nabi et al.			
		9	5334575	1994-08-02	Noonan et al.	,		
		10	5378618	1995-01-03	Sternberg et al.			
		11	5527695	1996-06-18	Hodges et al.			
		12	5605793	1997-02-25	Stemmer, W.P.C.			 -,
		13	5650308	1997-07-22	Baum, J.A.			·

n	14	5650557	1997-07-22	Hannah et al.		
	15	5728551	1998-03-17	Devine et al.		
	16	5801030	1998-09-01	McVey et al.	· •—	
	17	5814300	1998-09-29	Scott et al.	`	
\prod	18	5837458	1998-11-17	Minshull et al.	,	
	19	5929307	1999-07-27	Hodges et al.		
	20	5962255	1999-10-05	Griffiths et al.	ę	
	21	5981177	1999-11-09	Demirjian et al.	-	
	22	6080576	2000-06-27	Zambrowicz et al.		
	23	6143557	2000-11-07	Hartley, J.L. et al.	,	
	24	6225121	2001-05-01	Savakis, C. et al.	·	
	25	6262341	2001-07-17	Baszcynski et al.	B 1	
	26	6270969	2001-08-07	Hartley et al.	B1	•
	27	6271436	2001-08-07	Piedrahita et al.	B1	
	28	6277608	2001-08-21	Hartley et al.	B1	
	29	6361972	2002-03-26	Harrington et al.		
	30	6365377	2002-04-02	Patten et al.	B1	
	31	6410266	2002-06-25	Harrington et al.	-	
	32	6410317	2002-06-25	Farmer, A.F.	B1	
V	33	6436707	2002-08-20	Zambrowicz et al.	<u> </u>	

US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No. Pub. No.		Pub. No. Date Applicant Kin		Kind	Class	Subclass
W	1	20020007051	2002-01-17	Cheo et al.			
n	2	20030027337	2003-02-06	Droge et al.]		

Signature

Examiner Name	Date
Orle in	3/22/2004

									Page 1 of 6
					ATTY. DOCKET NO. 0942.5000001/RWE/BJD/JKM	1	APPLICAT 09/695,069		
THE CHOO		FORM PT		OCUPE STATEMENT	APPLICANT BRASCH et al.			6.4 17.3	
THIKD SUPP	LEMENTAL	INFORMA	I TOM DISCL	OSURE STATEMENT	FILING DATE October 25, 2000		GROUP 1634		·;
				U.S.	PATENT DOCUMENTS				. 3
EXAMINER INITIAL		DOCUM		DATE	NAME .	c	CLASS	SUB-CLASS	FILING DATE
n	AA8	4,626,5		12/02/1986	Falco	4	35	172.3	02/24/1984
	AB8						+		
	AC8								
	AD8						F	ECE	<u>NFD</u>
	AE8					\leftarrow			
	AF8				/			JUL 28	2003
	AG8					$-$ \			
	AH8					\longrightarrow	TFC	CENTER	1600/2900
	AI8				 /	- \	1201	-	
	AJ8				. /	<u> </u>	· · ·		
	AK8				NI DATENT DOGUMENTO				
574141155				FOREIC	ON PATENT DOCUMENTS			<u> </u>	<u> </u>
EXAMINER INITIAL		DOCUM		DATE	COUNTRY	C	CLASS	SUB-CLASS	TRANSLATION
	AL								Yes No
	AM								Yes No
	AN				X				Yes No
	AO								Yes No
	AP					V			Yes No
	Ar			OTHER (Including A	uthor, Title, Date, Pertinent Page	es, etc.)			
	T	Т		OTTIER (Including A		, oto.,	····		
1	AR	105			\times	,			
M	AS	105	Barnes, G., consequend	and Rine, J., "Regulated les," <i>Proc. Natl. Acad. Sc</i>	expression of endonuclease <i>Eco</i> R i. <i>USA 82</i> : 1354-1358, National Ac	Il in Saccharomy ademy of Scienc	ces cerevisie es (1985).	e: Nuclear entry	and biological
w	АТ	105	Bauer, C.E. <i>181</i> : 187-19	et al., "Extent of Sequence," 7, Academic Press Inc. (ce Homology Required for Bacteric 1985).	ophage Lambda S	Site-specific	Recombination,	* J. Mol. Biol.
EXAMINER	_J	1	li	cu		DAT	E CONSIDE	RED 3	/12/2001
Include copy of th	nis form with	ce considere next comm	ed, whether unication to	or not citation is in confor Applicant.	mance with MPEP 609. Draw line	through citation	if not in confo	ormance and no	t considered.
ODMANMHODMANSKGF_DC1									



	Tre.	RADEMAR	/a						Page 2 of 6
		SAD SALL			ATTY. DOCKET NO. 0942.5000001/RWE/BJD/JKM	l	APPLICA 09/695,00	TION NO. 55	
		FORM P		DOUBLE OF ATTEMENT	APPLICANT BRASCH et al.				
FOURTH SUPPI	EMENTA	<u>L INFORM</u>	ATION DISCLO	OSURE STATEMENT	FILING DATE October 25, 2000		GROUP 1634		
				U.S.	PATENT DOCUMENTS				
EXAMINER INITIAL		DOCUM NUMBE		DATE	NAME	CL	ASS	SUB-CLASS	FILING DATE
M.	AA9	6,066,77		05/23/2000	Ginsburg et al.	·			11/06/1996
	AB9	1 1 1 1							
	AC9					_			
	AD9	1				7			
	AE9	<u> </u>							
	AF9	1							
	AG9	1							
	AH9								
	AI9								
	AJ9								
	AK9								
				FORE	GN PATENT DOCUMENTS				
EXAMINER INITIAL		DOCU	JMENT BER	DATE	COUNTRY		CLASS	SUB-CLASS	STRANSLATION
_	AL								Yes No
	АМ								Yes No
	AN								Yes No
	AO								Yes No
	AP				\				Yes No
				OTHER (Including A	uthor, Title, Date, Pertinent Pag	jes, etc.)			
N	AR	111	Johnson, R.C <i>Proc. Nat'l. A</i>	:., et al., "Isolation of th cad. Sci. USA 85:3484	e gene encoding the Hin recombir 3488, National Academy of Scien	national enhancel loes (1988).	binding pro	otein,"	
	AS	111	Koch, C., et a Acad. Sci. U	al., "Escherichia coli ho SA 85: 4237–4241, Nati	st factor for site-specific DNA inve onal Academy of Sciences (1988)	rsion: Cloning an	d character	ization of the <i>fis</i>	gene," <i>Proc. Nat'l</i> .
	AT	111	Murayama, N the Control o	I., et al., "Evidence for f DNA Gyrase by letD (Involvement of Escherichia coli GeccdB) of Sex Factor F,* J. Mol. Bi	enes pmbA, csrA ol. 256:483-502, a	and a Prev Academic F	iously Unrecogr Press Limited (19	nized Gene tldD, in 1996).
EXAMINER		1	Tule	لبر			DATE CO	NSIDERED /	3/22/wo
EXAMINER: Initi	al if refere	nce consid	ered, whether o	r not citation is in confo	ormance with MPEP 609. Draw lin	e through citation	n if not in co	onformance and	not considered.

					·	<u> </u>		<u>_</u>	Page 3 of 6
					ATTY, DOCKET NO. 0942.5000001/RWE/BJD/JKM		APPLIC 09/695,0	ATION NO. 065	
			PTO-1449		APPLICANT BRASCH et al.				
THIRD SUPPL	EMENTAL	INFOR	MATION DISCL	OSURE STATEMENT	FILING DATE October 25, 2000		GROUF 1634)	
				11.2	PATENT DOCUMENTS				
EXAMINER	Τ	T			T			200	
INITIAL		DOCU	JMENT BER	DATE	NAME	- CL	488 	SUB-CLASS	FILING DATE
	AA	 							
	AB AC								
	AD	 							
	AE				X			 	
	AF								
	AG	 			 			ļ	
	AH				 			 	
	AJ	-}			 				
	AK	+		1					
<u> </u>	1,			FORE	GN PATENT DOCUMENTS				
EXAMINER INITIAL			CUMENT MBER	DATE	COUNTRY		CLASS	SUB-CLASS	TRANSLATION
	AL	1	THE COLUMN		\ /	\			Yes No
	AM		*						Yes No
	AN								Yes No
									Yes No
	AO				 				Yes No
·	AP			OTHER (Including	Author, Title, Date, Pertinent Pages,	etc.)			140
				OTHER (including)	Addition, Title, Date, Fertiment ages,	0,000	· · · · · · · ·		
M	AR	<u>107</u>	Enquist, L.W., a Bacterlophage	and Weisberg, R.A., "Th Lambda," <i>Virology 72: '</i>	ne Red Plaque Test: A Rapid Method f 147-153, Academic Press, Inc. (1976).	or Identificatio	n of Excis	ion Defective Val	riants of
İ			lino, T., and Ku	tsukake, K., " <i>Trans-a</i> ct	ing Genes of Bacteriophages P1 and N a," Cold Spring Harbor Symposia on C	Mu Mediate In	version of	a Specific DNA S	Segment Involved in
	AS	<u>107</u>	(1981).	variation of Saimonell	а, соло эрлгэд тагвог эутгрохга от С	evaninaliy y Di	лоду 4 3.	1 12 10, Cold Optil	
	ΑΤ	<u>107</u>	Klippel, A. et al	., "Isolation and charact	erization of unusual <i>gin</i> mutants," <i>The</i>	EMBO Journ	al 7: 3983	-3989, IRL Press	Inc. (1988).
EXAMINER						Tr	DATE COI	NSIDERED /	2/02/05/11

								 	Page 4 of 6
					ATTY. DOCKET NO. 0942.5000001/RWE/BJD/JKM		APPLICA 09/695,0	ATION NO.	
			RM PTO-1449		APPLICANT BRASCH et al.				
THIRD SUPP	<u>LEMENT.</u>	AL INFC	RMATION DISC	OSURE STATEMENT	FILING DATE October 25, 2000		GROUP 1634		
				U.S.	PATENT DOCUMENTS				
EXAMINER INITIAL			CUMENT	DATE	NAME	CLA	ss.	SUB-CLASS	FILING DATE
	AA	NU	MBER			+		 	
	AB		 			1		-	
	AC								<u> </u>
	AD								
	AE								
	AF				·				
	AG					<u> </u>			
	AH								
	Al					<u> </u>			
	AJ	_			· · · · · · · · · · · · · · · · · · ·			 	
	AK		<u></u>						
				FOREI	GN PATENT DOCUMENTS	1			
EXAMINER INITIAL			OCUMENT UMBER	DATE	COUNTRY	CI	LASS	SUB-CLASS	TRANSLATION
	AL				\ /				Yes No
	AM		·						Yes No
	AN				X				Yes No
	AO								Yes No
	AP				/				Yes No
				OTHER (Including A	uthor, Title, Date, Pertinent Pages, etc.)				
N	AR	108	Langeveld, S.A 400, Springer-	v. <i>el al.</i> , "Expression of a Verlag (1985).	n <i>Escherichla coli phr</i> gene in the yeast <i>Saccl</i>	haromy	ces cerev	isiae," Mol. Gen.	Genet. 199: 396-
	AS	<u>108</u>	Miller, H.I. et a	/., " <i>int-</i> h: an <i>int</i> Mutation o	of Phage λ That Enhances Site-Specific Reco	mbinat	ion," <i>Cell</i>	20: 721-729, MIT	f (1980).
	AT	108	Okayama, H., Cellular Biolog	and Berg, P., "Bacterioph y <i>5</i> : 1136-1142, Americal	nage Lambda Vector for Transducing a cDNA n Society for Microbiology (1985).	Clone	Library int	to Mammalian Ce	ells," Molecular and
EXAMINER			In	leur		Di	ATE CON	SIDERED	3/22/2004
EXAMINER: Init	ial If reference	ence cor ith next	sidered, whether communication to	or not citation is in confor Applicant.	rmance with MPEP 609. Draw line through ci	tation i	f not in co	nformance and n	ot considered.

									Page 5 of 6
					ATTY. DOCKET NO. 0942.5000001/RWE/BJD/JKM		APPLICA 09/695,0	ATION NO. 65	
			M PTO-1449	O COURT DE L'EURNE	APPLICANT BRASCH et al.				
THIRD SUPF	PLEMENTA	L INFO	RMATION DISC	LOSURE STATEMENT	FILING DATE October 25, 2000		GROUP 1634		
				U.S.	PATENT DOCUMENTS				
EXAMINER INITIAL			CUMENT MBER	DATE	NAME	CL	ASS	SUB-CLASS	FILING DATE
	AA				`\				
	AB								
	AC					_			
	AD								
	AE				L				
	AF					_ _			
	AG								
	AH								
	Al								
	AJ				· · ·	_			
	AK					,		<u></u>	
				FOREI	GN PATENT DOCUMENTS	. 1		· ·	
EXAMINER INITIAL			OCUMENT UMBER	DATE	COUNTRY	C	CLASS	SUB-CLASS	TRANSLATION
	1				\ ,				Yes No
	AL								Yes No
	AM								Yes No
	AN	-							Yes
	AO				 		<u></u>	_	Yes
	ΑP				\				No
		1	·	OTHER (Including A	Author, Title, Date, Pertinent Pages, etc.))			
M	AR	<u>109</u>	Sauer, B., "E (1340), Alan F	xpression and Functioning R. Liss, Inc. (1986).	in Yeast of a Bacterial Site Specific Recor	mbination	ı System,"	J. Cell. Blo. Che	m. Supp. 10(b): 242
	AS	<u>109</u>	Sauer, B., an Natl. Acad. S	d Henderson, N., *Site-sp ci. USA 85: 5166-5170, N	ecific DNA recombination in mammalian ce ational Academy of Sciences (1988).	ells by the	e Gre recor	nbinase of bacte	riophage P1," <i>Proc.</i>
	AT	<u>109</u>	Scott, S.D., a Macmillan Pt	ind Marples, B., "Commer ublishers Ltd. (2000).	nt on the use of the cre/loxp recombinase s	ystem for	gene ther	apy vectors," Ge	ne Therapy 7: 1706,
EXAMINER		-	Tul	(_ (M		1	DATE CON	ISIDERED	3/22/2006
EXAMINER: In	itial if refer	ence cor	nsidered, whether	er or not citation is in confo	ormance with MPEP 609. Draw line throug	h citation	if not in co	nformance and	not considered.
Include copy of	this form w	ith next	communication	to Applicant,					

								Page 6 of 6
					ATTY, DOCKET NO. 0942.5000001/RWE/BJD/JKM	APPLIC/ 09/695,0	ATION NO. 65	
			1 PTO-1449		APPLICANT BRASCH et al.			
THIRD SUPPL	<u>EMENTA</u>	<u>L INFOR</u>	RMATION DISCLO	SURE STATEMENT	FILING DATE October 25, 2000	GROUP 1634		
				U.S.	PATENT DOCUMENTS			
EXAMINER INITIAL		DOC NUM	UMENT	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA	110111	DCIT		1.	ļ		
	AB	1						
	AC							
	AD							
	AE				X			
	AF			ļ				
	AG	-		<u> </u>				
	AH				 	 		
	Al	+			 /			
	AJ AK							
	AN	!	· · · · · · · · · · · · · · · · · · ·	FOREI	GN PATENT DOCUMENTS			
EXAMINER INITIAL			OCUMENT IMBER	DATE	COUNTRY	CLASS	SUB-CLASS	S TRANSLATION
	AL							Yes No
	AM							Yes No
	AN				X			Yes No
		}						Yes No
	AO AB		······································					Yes No
	AP			OTHER (Including A	uthor, Title, Date, Pertinent Pages, etc.)		_1	110
<u> </u>				OTHER (Including A	othor, Title, Date, Fertilient Pages, etc.,	,		
re	AR	<u>110</u>	Vetter, D. et al., Sciences (1983)	"Site-specific recombin	ation of yeast 2-µm DNA <i>in vitro,</i> " <i>Proc. Natl.</i>	Acad. Sci. USA	80: 7284-7288,	National Academy of
	AS	110						
	AT	<u>110</u>						4
EXAMINER			1	rle in		DATE CON	SIDERED 3	pr poux
EXAMINER: Initial	al if refere is form wi	nce cons th next c	sidered, whether o	r not citation is in confo Applicant.	rmance with MPEP 609. Draw line through c	itation if not in co	nformance and	not considered.



Include copy of this form with next communication to Applicant.

Page 1 of 6 PRADEMAR APPLICATION NO. ATTY, DOCKET NO. 09/695,065 0942.5000001/RWE/BJD/JKM FORM PTO-1449 **APPLICANT** BRASCH et al. FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT GROUP FILING DATE 1634 October 25, 2000 U.S. PATENT DOCUMENTS **EXAMINER** CLASS SUB-CLASS FILING DATE DATE NAME INITIAL DOCUMENT NUMBER AA8 Hartley et al. 05/16/2001 07/18/2002 AB8 2002/0094574-A1 07/19/2001 2002/0172997-A1 11/21/2002 Hartley et al. AC8 07/19/2001 Hartley et al. 2002/0192819-A1 12/19/2002 AD8 01/30/2002 04/03/2003 Hartley et al. AE8 2003/0064515-A1 05/06/2002 04/10/2003 Hartley et al. AF8 2003/0068799-A1 04/19/2002 04/24/2003 Byrd et al. AG8 2003/0077804-A1 11/02/1999 05/29/2003 8HA 2003/0100110-A1 Hartley et al. 05/21/2002 07/03/2003 Brasch et al. Al8 2003/0124555-A1 11/13/2002 08/21/2003 Gerard et al. AJ8 2003/0157662-A1 11/02/2001 08/21/2003 2003/0157716-A1 Hartley et al. AK8 FOREIGN PATENT DOCUMENTS EXAMINER CLASS SUB-CLASS TRANSLATION DATE COUNTRY DOCUMENT INITIAL NUMBER Yes No AL9 Yes u No AM9 WO 96/40722 12/19/1996 WIPO. Yes No AN9 Yes No AO9 Yes Νo AP9 OTHER (Including Author, Title, Date, Pertinent Pages, etc.) AR 110 Cormack, B., 'Directed Mutagenesis Using the Polymerase Chain Reaction,' in Current Protocols in Molecular Biology, Ausubel, F.M., AS 110 et al., eds., John Wiley & Sons, Inc., New York, NY, pp. 8.5.1-8.5.10 (1997). Feinbaum, R., "Vectors Derived from Plasmids," in Current Protocols in Molecular Biology, Ausubel, F. M., et al., eds., John Wiley & ΑT <u>110</u> Sons, Inc., New York, NY, pp.1.5.1-1.5.17 (1998). 2004 DATE CONSIDERED $\imath\imath$ **EXAMINER** Su **EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.



Include copy of this form with next communication to Applicant.

Page 3 of 6 ATTY. DOCKET NO. APPLICATION NO. 09/695,065 0942.5000001/RWE/BJD/JKM FORM PTO-1449 **APPLICANT** BRASCH et al. FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT GROUP FILING DATE 1634 October 25, 2000 U.S. PATENT DOCUMENTS **EXAMINER** CLASS SUB-CLASS FILING DATE DATE NAME DOCUMENT INITIAL NUMBER AΑ ΑB AC ΑD ΑE ΑF AG ΑH ΑI ΑJ ΑK FOREIGN PATENT DOCUMENTS **EXAMINER** CLASS SUB-CLASS TRANSLATION DATE COUNTRY DOCUMENT INITIAL NUMBER Yes No Yes No Yes No AN Yes No AO Yes No ΑP OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Osuna, R., et al., *Identification of two functional regions in Fis: the N-terminus is required to promote Hin-mediated DNA inversion but not λ excision,* The EMBO Journal 10: 1593-1603, Oxford University Press (1991). <u>112</u> AR Sambrook, J., et al., Molecular Cloning: A Laboratory Manual, 2nd ed., Cold Spring Harbor Laboratory Press, New York, NY, pp. 16.6-AS 112 16.8, (1989). Stryer, L., "The DNA Template Contains Stop Signals for transcription," in Biochemistry, 2nd ed., W.H. Freeman and Co., New York, AT 112 NY, p. 610 (1981). DATE CONSIDERED **EXAMINER** WO u Lu **EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.



NAME		13	4	N. Committee						Page 4 of 6
FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT U.S. PATENT DOCUMENTS V.S. PATENT DOCUMENTS NAME CLASS SUB-CLASS FLING DATE AAA AB AC AB AF AG AG AN AN AN AN AN AN AN AN		· PA	DEMARK							
DATE NAME U.S. PATENT DOCUMENTS PARMINER NITIAL DOCUMENT NUMBER DATE NAME CLASS SUB CLASS FILING DATE AA AB AC AC AD AE AF AG AG AH AI AI AI AI AI AI AI AI AI					OCUPE STATEMENT					
DOCUMENT NUMBER DATE NAME CLASS SUB-CLASS FILING DATE AAA AB AB AC AC AC AC AC AC A	FOURTH SUPP	LEMENTAL	. INFORM/	ATION DISCL	OSURE STATEMENT					
NITIAL DOCUMENT NUMBER AA AB AC AC AD AF AG AH AI AI AI AI AI AI AI AN FOREIGN PATENT DOCUMENTS EXAMINER TOCUMENT NUMBER DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS IRANSLATION Yes NO Yes NO AN AN AN AN AN AN AN AN AN					U.S.	PATENT DOCUMENTS			,	
AB AC AD AD AD AE AF AF AG AG AH AI	EXAMINER INITIAL				DATE	NAME	CI	ASS	SUB-CLASS	FILING DATE
AC AD AD AE AE AF AG AG AH AI		AA				1				
AD AE AF AG AG AH AI AI AJ AJ AJ AK FOREIGN PATENT DOCUMENTS EXAMINER NITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS TRANSLATION Yes N AN A		AB								
AE AF AG		AC								
AF AG AG AG AH AH AI		AD								
AG AH AH AN AJ AJ AK FOREIGN PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT DATE COUNTRY CLASS SUB-CLASS TRANSLATION YES NO. AM AM AN		AE				V				
AH AI		AF				Λ				
AH AI									<u> </u>	
AN AJ AJ AJ AN AK FOREIGN PATENT DOCUMENTS EXAMINER INITIAL AL AJ										
EXAMINER INITIAL AR DOCUMENT NUMBER DATE COUNTRY CLASS SUB-CLASS TRANSLATION Yes No. Yes No. Yes No. Yes No. Yes No. AN AN AN AN AN AN AN AP DITHER (Including Author, Title, Date, Pertinent Pages, etc.) AR 113 Pending U.S. Non-Provisional Patent Application No. 09/848,790, filed August 28, 2000. EXAMINER EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 509. Draw line through citation if not in conformance and not considered.			T							
FOREIGN PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER AL AM AM AN AN AO AO AP OTHER (including Author, Title, Date, Pertinent Pages, etc.) OTHER (including Author, Title, Date, Pertinent Pages, etc.) AS 113 Pending U.S. Non-Provisional Patent Application No. 09/648,790, filed August 28, 2000. EXAMINER EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 509, Draw line through citation if not in conformance and not considered.			1							
EXAMINER INITIAL. DOCUMENT NUMBER AL AL AM AN AN AO AD DATE COUNTRY CLASS SUB-CLASS TRANSLATION Yes No. AP DATE (Including Author, Title, Date, Perlinent Pages, etc.) AS 113 Pending U.S. Non-Provisional Patent Application No. 09/498,074, filed February 4, 2000. AT 113 Pending U.S. Non-Provisional Patent Application No. 09/648,790, filed August 28, 2000. EXAMINER EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.		_							<u> </u>	
INITIAL DOCUMENT NUMBER AL AL AN AN AN AO OTHER (Including Author, Title, Date, Pertinent Pages, etc.) OTHER (Including Author, Title, Date, Pertinent Pages, etc.) AR 113 Pending U.S. Non-Provisional Patent Application No. 09/498,074, filed February 4, 2000. AS 113 Pending U.S. Non-Provisional Patent Application No. 09/648,790, filed August 28, 2000. EXAMINER DATE CONSIDERED A WWY EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.	_				FOREI	GN PATENT DOCUMENTS				
AL AM AN AN AO AO AP OTHER (Including Author, Title, Date, Pertinent Pages, etc.) AR 113 Pending U.S. Non-Provisional Patent Application No. 09/498,074, filed February 4, 2000. AS 113 Pending U.S. Non-Provisional Patent Application No. 09/648,790, filed August 28, 2000. EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.	EXAMINER INITIAL				DATE	COUNTRY		CLASS	SUB-CLAS	S TRANSLATION
AN AN Yes No. AO AO THER (Including Author, Title, Date, Pertinent Pages, etc.) OTHER (Including Author, Title, Date, Pertinent Pages, etc.) AR 113 Pending U.S. Non-Provisional Patent Application No. 09/498,074, filed February 4, 2000. AS 113 Pending U.S. Non-Provisional Patent Application No. 09/648,790, filed August 28, 2000. EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.						\ /				Yes No
AN AO AO AO AP OTHER (Including Author, Title, Date, Pertinent Pages, etc.) OTHER (Including Author, Title, Date, Pertinent Pages, etc.) AR 113 Pending U.S. Non-Provisional Patent Application No. 09/498,074, filed February 4, 2000. AS 113 Pending U.S. Non-Provisional Patent Application No. 09/648,790, filed August 28, 2000. EXAMINER: DATE CONSIDERED S May 4 EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.				·						Yes No
AR 113 Pending U.S. Non-Provisional Patent Application No. 09/498,074, filed February 4, 2000. AS 113 Pending U.S. Non-Provisional Patent Application No. 09/648,790, filed August 28, 2000. AT 113 Pending U.S. Non-Provisional Patent Application No. 09/984,239, filed October 29, 2001. EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.										Yes No
AR 113 Pending U.S. Non-Provisional Patent Application No. 09/848,790, filed August 28, 2000. AS 113 Pending U.S. Non-Provisional Patent Application No. 09/848,790, filed August 28, 2000. EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.		<u> </u>								Yes No
AR 113 Pending U.S. Non-Provisional Patent Application No. 09/498,074, filed February 4, 2000. AS 113 Pending U.S. Non-Provisional Patent Application No. 09/648,790, filed August 28, 2000. AT 113 Pending U.S. Non-Provisional Patent Application No. 09/648,790, filed August 28, 2000. EXAMINER DATE CONSIDERED AND U.S. Non-Provisional Patent Application No. 09/984,239, filed October 29, 2001.	:		- -							Yes No
AR 113 Pending U.S. Non-Provisional Patent Application No. 09/498,074, filed February 4, 2000. AS 113 Pending U.S. Non-Provisional Patent Application No. 09/648,790, filed August 28, 2000. AT 113 Pending U.S. Non-Provisional Patent Application No. 09/984,239, filed October 29, 2001. EXAMINER DATE CONSIDERED 3 May by EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.		_ JAP			OTHER (Including	Author, Title, Date, Pertinent Pages,	etc.)			
AS 113 Pending U.S. Non-Provisional Patent Application No. 09/648,790, filed August 28, 2000. AT 113 Pending U.S. Non-Provisional Patent Application No. 09/984,239, filed October 29, 2001. EXAMINER DATE CONSIDERED AMOUNT EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.										
AT 113 Pending U.S. Non-Provisional Patent Application No. 09/984,239, filed October 29, 2001. EXAMINER DATE CONSIDERED Alway EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.	M	AR	113	Pending U.S	i. Non-Provisional Pater	nt Application No. 09/498,074, filed Fet	oruary 4, 20	00.		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.		AS	113	Pending U.S	S. Non-Provisional Pate	nt Application No. 09/648,790, filed Auç	gust 28, 200	00.		•
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.										
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.		AT	113	Pending U.S	S. Non-Provisional Pate	nt Application No. 09/984,239, filed Oc	tober 29, 20			
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.			•	_						3/2/w04
Illicitude copy of this form what hext communication to replicating	EXAMINER: Ini	itial if referen	nce conside h next com	ered, whether nmunication to	or not citation is in confi Applicant.	ormance with MPEP 609. Draw line th	rough citation	on if not in c	conformance and	not considered.



	. 4	PADPHA	34-						Page 5 of 6
					ATTY, DOCKET NO. 0942.5000001/RWE/BJD/JKM		APPLICATI 09/695,065	ON NO.	
		FORM PT			APPLICANT BRASCH et al.				
FOURTH SUPPL	EMENTAL	_ INFORM	ATION DISCL	OSURE STATEMENT	FILING DATE October 25, 2000		GROUP 1634		
				U.S.	PATENT DOCUMENTS				
XAMINER									
NITIAL		DOCUM NUMBEI		DATE	NAME	CLA	SS S	SUB-CLASS	FILING DATE
	AA				<u> </u>				
	AB	<u> </u>			/	·			
	AC								
	AD				\/_				
	ΑE				X				
	AF								
	AG								
	АН								
	Al	† · · · · · · · · · · · · · · · · · · ·			7				
	AJ	<u> </u>			/				
	AK	 				\			
	LAIS	<u> </u>		FOREI	GN PATENT DOCUMENTS	-\			
EXAMINER NITIAL		DOCU	JMENT BER	DATE	COUNTRY	C	LASS	SUB-CLASS	TRANSLATION
	AL	1101111				/			Yes No
	AM								Yes No
	AN								Yes No
	AO								Yes No
	AP								Yes No
				OTHER (Including A	Author, Title, Date, Pertinent Page	es, etc.)			
N	AR	114	Pending U.S	s. Non-Provisional Pater	nt Application No. 10/005,876, filed	December 7, 200	11.		
	AS	114	Pending U.S	S. Non-Provisional Pater	nt Application No. 10/058,292, filed	January 30, 2002	<u>2</u> .		
$\overline{\hspace{1cm}}$	AT	114	Pending U.S	5. Non-Provisional Pate	nt Application No. 10/300,892, filed	November 21, 20	002.		
EXAMINER			Trile	in			DATE CONS	SIDERED	3/12/w
EXAMINER: Initial	al if referer is form with	nce conside	ered, whether munication to	or not citation is in confe Applicant.	ormance with MPEP 609. Draw line	e through citation	if not in conf	formance and	not considered.



Page 6 of 6 APPLICATION NO. ATTY. DOCKET NO. 09/695,065 0942.5000001/RWE/BJD/JKM **FORM PTO-1449 APPLICANT** BRASCH et al. FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT GROUP FILING DATE 1634 October 25, 2000 U.S. PATENT DOCUMENTS **EXAMINER** CLASS FILING DATE SUB-CLASS **DOCUMENT** DATE NAME INITIAL NUMBER AA AB AC ΑD ΑE AF AG ΑH Αl ΑJ ΑK FOREIGN PATENT DOCUMENTS **EXAMINER** CLASS SUB-CLASS TRANSLATION COUNTRY INITIAL DOCUMENT DATE NUMBER Yes Νo ΑL Yes No AM Yes No AN Yes No AO Yes No AP OTHER (Including Author, Title, Date, Pertinent Pages, etc.) AR 115 Pending U.S. Non-Provisional Patent Application No. 10/396,696, filed March 26, 2003 Pending U.S. Non-Provisional Patent Application No. 10/454,793, filed June 5, 2003. AS <u>115</u> Pending U.S. Non-Provisional Patent Application No. 10/640,422, filed August 14, 2003. ΑT <u>115</u> DATE CONSIDERED 2004 **EXAMINER EXAMINER**: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Page 1 of 21

U.S.	PATENT DOCUMENTS		_
INFORMATION DISCLOSURE STATEMENT	FILING DATE October 25, 2000	GROUP 1682	_
FORM PTO-1449 SECOND SUPPLEMENTAL	APPLICANT Brasch et al.		
18.5	ATTY. DOCKET NO. 0942.5000001/RWE/BJD/JKM	APPLICATION NO. 09/695,065	

TNEC	RMATIO	N DISC	LOSURE STATEM	IEIVI	October 25, 2000		1682	
				U.S. PAT	ENT DOCUMENTS			
XAMINER NITIAL		DOCUM	MENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA							
	AB				\	 		
	AC	<u> </u>					 	RECEIVE NON 1 8 2003
	AD						<u> </u>	CE/II
	AE	ļ			——— X ——		ļ <u>.</u>	Nu.
	AF				/\		<u> </u>	8 200
	AG	<u> </u>			 	_	I FCH O	** 2003 WER 1600/290
	AH				 		-0110	WIER 100
	ΛI	ļ			 / \ - - 			1600/290
	AJ_	ļ <u>.</u>			\ <u></u>			+
	AK	<u></u>					<u></u>	
		,		FOREIGN PA	ATENT DOCUMENTS		 _	
XAMINER	1	DOCT	MENT MIMPED	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
LAITIN		DOCO	MENT NUMBER	DATE	COMPLET			Yes
	AL							No
n	AM6	EP 0	220 009	04/29/1987	Europe			Yes No
1	AN6	WO 9	0/11375	10/04/1990	WIPO			Yes No
	A06	EP 0	427 074	05/15/1991	Europe			Yes No
1/	AP6		1/09957	07/11/1991	WIPO			Yes No
	MPO				tle, Date, Pertinent P	ages, et	c.)	
N	AR	<u>85</u>	Akagi K	ot al "Cre-	mediated somatic site-s -1788, Oxford Universit	specific	recombinati	on in mice,"
	AS	<u>85</u>	Chromatid Ex	change Produc	Positive Selection of I ots in Mammalian Cells robiology (1997).	FLP-Media	ated Unequal Cell. Biol.	Sister 17:857-861,
V	AΤ	85	la gingle vec	tor strategy	"Inducible expression l for stable expression d University Press (Ju.	in cult	ured cells,"	recombination: Nucl. Acids
EXAMINER	_L		W	le in		DATE	CONSIDERED	3/22/20

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.

Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

CHENT & TRANS

- Pr 18k	? 		·					Page 2 of 21
TENT &					ATTY. DOCKET NO 0942.5000001/RW	E/BJD/JKM	APPLICATION 09/695,065	NO.
	F	ORM P	TO-1449		APPLICANT			
Tirra			PPLEMENTAL	a entro	Brasch et al. FILING DATE		GROUP	
INFO	RMATIO	N DISC	CLOSURE STATE	<u> </u>	October 25, 200	0	1682	
				U.S. PAT	ENT DOCUMENTS			
XAMINER							3 OTTO GT 3 GG	
NITIAL	DOCUMENT NUMBER DATE				NAME	CLAS	S SUB-CLASS	FILING DATE
	AA	-			 			N -
	AB	 			 	/ 		RECEIV
	AC			 	\\	/		- JEIV
	AD AE	 		 	$\overline{}$		-	WNIO
	AF	 			\wedge		TECH	2003
	AG	 		<u> </u>	 			ENTED
	AH	 			 	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		600/2
	AI	 		 		\		ENTER 1600/2
	AJ	 				1		
	AK							
		<u> </u>		FOREIGN P.	ATENT DOCUMENTS			
AMINER								
ITIAL	 	DOCU	MENT NUMBER	DATE	COUNTRY	CLAS	S SUB-CLASS	TRANSLATION
/h	AL7	WO 9	2/15694	09/17/1992	WIPO			Yes No
	1 227	1,,,,,,,						Yes
	AM7	WO 9	2/22650	12/23/1992	WIPO			No
				05/10/1007	Firmers			Yes No
	AN7	EP 0	542 466	05/19/1993	Europe			Yes
	A07	WO 9	4/03624	02/17/1994	WIPO			No
3/								Yes
	AP7		4/18333	08/18/1994	WIPO		<u> </u>	No
		ro	THER (Includia	ng Author, Ti	tle, Date, Perti	nent Pages, e	tc.)	
Ni	AR	<u>86</u>	mediated Exc for Replicat	ision (VEX).	ecise Deletions : The trfA Gene of al Gram-negative 1993).	f Promiscuous	Plasmid RK2	is Essential
	AS	86	Backman, K., Regulate Gen Company (198	e Expression	e of Synchronous ," Bio/Technolog	Site-Specifi y 2:1045-1049	c Recombinati , Nature Publ	on In Vivo to
	AT	86	Bai, C., et Proteolysis Press (1996)	Machinery th	onnects Cell Cyc rough a Novel Mot	le Regulators tif, the F-Bo	to the Ubiqu x," <i>Cell 86</i> :2	aitin 163-274, Cell
XAMINER			Porls	u.		DAT	E CONSIDERED	3/22/200

OF SOLATION OF THE STREET

PATENT &					ATTY. DOCKET NO 0942.5000001/RV		APPLICATION 09/695,065	Page 3 of 21
<u>.</u>	1	FORM I	PTO-1449		APPLICANT	127 2007 0101	007 000 7 000	
			JPPLEMENTAL		Brasch et al.			
INF	ORMATIC	n dis	CLOSURE STATE	MENT	FILING DATE October 25, 200	00	GROUP 1682	
				U.S. PAT	TENT DOCUMENTS			
EXAMINER		1						
NITIAL		DOCU	MENT NUMBER	DATE	NAME	CLASS	S SUB-CLASS	FILING DATE
	AA						- 	
	AB	 			 		- 	PECEL JUN 1 8 201 CENTER 1000
	AC	├			 \-/		 	AECE
	AD				 \/ 		_	
	AE	 			 X			JUN ,
	AF AC	 		 	 		7501	3 20
	AG	 			 		"LUA	CFNTCO
	AH	+	· · · · · · · · · · · · · · · · · · ·	 	 / 		-	-11/EH 1600
	AI	 			 /\			
	AJ	+		 	/		1	
	AK	<u> </u>		FORETGN P	ATENT DOCUMENTS			
XAMINER NITIAL		DOCE	MENT NUMBER	DATE	COUNTRY	CLASS	S SUB-CLASS	TRANSLATION
N	AL8	wo s	6/04393	02/15/1996	WIPO			Yes No
	8MA	WO 9	06/30498	10/03/1996	WIPO			Yes No
	8//A	WO 9	6/40724	12/19/1996	WIPO			Yes No
	A08	wo c	01/07572	02/01/2001	WIPO .			Yes No
$\overline{}$	AP8	wo c	01/62892	08/30/2001	WIPO	<u> </u>		Yes No
		07	THER (Includin	ng Author, Ti	tle, Date, Perti	nent Pages, et	:c.)	
N	AR	<u>87</u>	Bernard, P. DNA Cleavage	et al., "The by Gyrase,"	F Plasmid CcdB J. Mol. Biol. 2	Protein Induce 34:534-541, Ac	s Efficient A ademic Press	ATP-dependent (1993).
ĺ	AS	<u>87</u>			Jery Strong Enha Human Cytomegalo			
	AT	<u>87</u>	Integrated a	t the Same Cl	, "Transcription promosomal Locus	by Recombinas	LCR Enhance: e-Mediated Ca Hematology	assette

Page 4 of 21

PATENT & TREE

FORM PTO-1449

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 0942.5000001/RWE/BJD/JKM	APPLICATION NO. 09/695,065
APPLICANT Brasch et al.	
FILING DATE	GROUP

					October 25, 2000	:	1682	
				U.S. PAT	ENT DOCUMENTS			
XAMINER NITIAL		DOCU	MENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA							<u> </u>
	AB	ļ						
	AC							PEQ.
	AD	<u> </u>						CEIM
	AE				\\		J	PECEIVE
	AF						7	4/4 1 8 5000
	AG				 		IECH C	WTER 1600/29
	AH	ļ	-				1702	WER 1600
	AI				 			1000/29
	AJ				 		ļ	
	AK	<u> </u>			<u> </u>		<u> </u>	
		· · · · · · · · · · · · · · · · · · ·		FOREIGN P.	ATENT DOCUMENTS			
XAMINER		200			GOLDANDA	CLASS	CITE OF AGO	mp a vor a m r ov
NITIAL_	-	DOCC	MENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
n	AL9	WO C	2/05294	01/17/2002	WIPO			Yes No
	AM							Yes No
	AN					ļ		Yes No
	AO							Yes No
	AP							Yes No
		O	THER (Includin	g Author, Ti	tle, Date, Pertinent	Pages, etc	·	<u> </u>
N	AR	88	into the Gene	ome of Mammal	ransfer of Single Ger lian Cells by a Retro irol. 70:1792-1798, A	oviral Vect	or Carrying	the <i>cre</i> Gene
	AS	88		ccharomyces o	cational Analysis of cerevisiae," Mol. Cei (1988).			
	АТ	88	CLONTECH, "C		Cloning & Expression	n System,"	CLONTECHniq	ues 15:7-11,
EXAMINER	ــــــ	4	a.k.	····		DATE	CONSIDERED	3/2/100

CATENY & TRIP

Page 5 of 21

FORM PTO-1449

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

	APPLICATION NO. 09/695,065
APPLICANT Brasch et al.	
FILING DATE	GROUP

					October 25, 2000		1682	
				U.S. PAI	ENT DOCUMENTS			
EXAMINER INITIAL		DOCU	MENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA				1			
	AB						ļ,	PEO
	AC							PECEIVE UN 1 8 7003
	AD				 			NIER 1600/290
	AE				├		72	8 2000
	AF	ļ			 		LECH?	* 003
	AG						., 0,	TVIED 1600
	AH	<u> </u>						1000/290
	ŊΊ	<u> </u>		ļ	 			ļ'
	AJ	<u> </u>			\ <u>'</u>			
	AK				\		<u> </u>	<u> </u>
				FOREIGN P.	ATENT DOCUMENTS			
EXAMINER INITIAL		DOCU	MENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL				\ /			Yes No
								Yes No
	AM	-			\vdash X			Yes
	AN			<u> </u>	 			No Yes
	AO							No
	AP				, ,			Yes No
		07	HER (Includir	ng Author, Ti	tle, Date, Pertinent F	ages, etc	2.)	
N	AR	<u>89</u>	CLONTECH, "N CLONTECH (Ja	ew Additions nuary 2001).	to the Creator™ Platf	orm," CLC	NTECHniques	16:4 pages,
	AS	<u>89</u>	CLONTECH, "N pages, CLONT	ew Creator'M	-Compatible Expression 2000).	Systems,	" CLONTECHn	iques 15:2
	AT	<u>89</u>	CLONTECH, "C	reator™ Acce ECH (October	ptor Vector Constructi 2001).	on Kit,"	CLONTECHniq	ues 16:2
EXAMINER			1/11/4	(4.		DATE	CONSIDERED	3/22/204

JUN 1 7 2003

Page 6 of 21

FORM PTO-1449

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 0942.5000001/RWE/BJD/JKM APPLICATION NO. 09/695,065

APPLICANT

Brasch et al.

FILING DATE October 25, 2000 GROUP 1682

					October 25, 2000		1682	
				U.S. 1	ATENT DOCUMENTS			
EXAMINER INITIAL		DOCU	MENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA				1			
	AB	<u> </u>					` .	ECEIVE N 1 8 2003 VER 1600/2900
	AC	_				 	<i>F</i>	
	AD							CEAL
	AE			 	- 		J.	77
	AF	_		ļ			770.	1 1 8 200
	AG			<u> </u>			"ECH CE	<003
	AH			 	/		OL/	VER 1600
	AI				/			1000/290
	AJ			ļ. · · · · · · · · · · · · · · · · · · ·			<u> </u>	100
	AK			<u></u>				
	<u> </u>			FOREIGN	PATENT DOCUMENTS		- ₁	
XAMINER NITIAL		ם מינו	MENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
MITTAL	-	10000	MENI NOMBER	DATE	COONTRI	-	TOD CERTOD	Yes
	AL							No
			-					Yes
	AM							No
	7.57	į			\wedge			Yes
	AN			 	/-\			Yes
	AO	1						No.
								Yes
	AP	_1					<u> </u>	, No
·	1	<u>دە</u>	THER (Including	ng Author,	Title, Date, Pertinent	Pages, etc	=.)	
M	AR	90	CLONTECH, "C		ART™ Library Construct er 2001).	ion Kit," (TLONTECHniqu	es 16:2
	AS	90	CLONTECH, "C Powerpoint F http://www.c	reator*: The resentation lontech.com	ne Universal Platform n, 9 pages, ChowfeCH, n/products/fam/lies/cr	for Analysi (July 24, 2 eator/popur	s ot Gene F 001), avail s/s1page1.h	unction," able at tml.
	AT	90	CLONTECH, "C	reator™ pDi ctober 2001	NR-Dual Cloning Kit," 1).	CLONTECHniq	rues 16:3 pa	ges,
XAMINER	J	L	-And	1 4.		DATE	CONSIDERED	3/20/200

FORM PTO-1449

ATTY. DOCKET NO. 0942.5000001/RWE/BJD/JKM

APPLICATION NO. 09/695,065

Page 7 of 21

APPLICANT

:					Brasch et al.				
INFO	<u>SEC</u> RMATIC	OND SU	PPLEMENTAL CLOSURE STATEM	MENT	FILING DATE		GROUP 1682		
					October 25, 2000		1682		
	·			0.8. 1	PATENT DOCUMENTS		1		
XAMINER NITIAL		DOCU	MENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE	
	AA			ļ	A		ļ		
	AB							RECEIVE VN 1 8 2003 NTER 1600/29	
	AC						+	I-CFII	
	AD			ļ			 ,	-1VI	
	AE	<u> </u>		<u> </u>			J	W I W 20	
<u> </u>	AF						TECHO	2 71103	
	AG	_		 	 		- "LUTICE	WIFD to	
	AH	_						1000/20	
	AI			ļ <u></u> -			<u> </u>	-	
	АJ	_		ļ					
	AK								
				FOREIGN	PATENT DOCUMENTS			Т	
XAMINER		DOCT	JMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
NITIAL		Doce	MENT NOMBER	DATE	1			Yes	
	AL			ļ			<u></u>	No	
	AM							Yes	
	AN				X			Yes No	
· ·								Yes	
	AO	1	_,					Yes	
	AP			<u> </u>				No	
		0'	THER (Includia	g Author,	Title, Date, Pertine	nt Pages, e	tc.)		
M	AR	91	Curcio, M.J. retrotranspo Sciences (19	sition," F	inkel, D.J., "Single Proc. Natl. Acad. Sci	-step select . <i>US</i> A 88:936	ion for Tyl	element al Academy o	
	AS	91	Dijkema, R.,	et al., " gene of the	Cloning and expressi: rat," <i>EMBO J.</i> 4:761	on of the ch -767, IRL Pr	nromosomal in ess Limited	mune (1985).	
	AT	91	Flanagan, P. Recombination	n Reaction	inwald, M.A., "Analys Mediated by Tn3 Res I (1989).	is of Inhibi olvase," <i>J</i> .	itors of the Mol. Biol. 2	Site-specifi 206:295-304,	
XAMINER	<u> </u>		11			DATE	CONSIDERED	Alaska	

OIPE TO THANK THE TRANSPORT

Page 8 of 21

FORM PTO-1449

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0942.5000001/RWE/BJD/JKM

APPLICATION NO.
09/695,065

APPLICANT
Brasch et al.

FILING DATE

GROUP

			CHOSOKE CIATE		October 25, 2000		L682	
				U.S. PAT	TENT DOCUMENTS			
EXAMINER INITIAL		DOCU	MENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA							
	AB			<u> </u>			Dr	CEIVED
	AC						112	CEHA
	AD				 		1170	- VEL
	AE	ļ					JUN	18 2000
	AF			 	 		TECH OF	R 1600/2900
	AG				/ /		-OIT CENT	R 1600
	AH			ļ				"' 1000/2900
	AI			ļ	 			
	AJ				, , ,			
	AK			1	<u> </u>	i		
				FOREIGN P	ATENT DOCUMENTS			
EXAMINER INITIAL	ł	DOCU	MENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL							Yes No
								Yes No
	AM	-			 			Yes
	AN	 			 			No Yes
	AO	+-			 			No Yes
	AP				(]	No
		07	THER (Includir	g Author, Ti	tle, Date, Pertinent P	ages, etc	:.)	
N	AR	92	Sequence Ele	ments in Gra	ve Selection Procedure m-Negative Bacteria," robiology (1985).	for Entr J. Bacter	apment of I	nsertion 8-921,
	AS	92	Levansucrase	of Bacillus	g Structural Gene <i>sacB</i> subtilis: Expression (431, American Society)	of the Ge	ne in <i>Esche</i> :	richia coli,"
	АТ	92	promoter whe	n introduced ," <i>Proc. Nat</i>	e Rous sarcoma virus l into a variety of euk l. Acad. Sci. USA 79:6	aryotic c	ells by DNA	-mediated
EXAMINER			Mul	l lu		DATE	CONSIDERED	3/2/w

JUN 17 2003 SE

Page 9 of 21

FORM PTO-1449

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. APPLICATION NO. 0942.5000001/RWE/BJD/JKM 09/695,065

APPLICANT Brasch et al.

FILING DATE GROUP October 25, 2000 1682

U.S. PATENT DOCUMENTS EXAMINER CLASS SUB-CLASS FILING DATE DOCUMENT NUMBER DATE NAME INITIAL AΑ AB AC $\mathbf{A}\mathbf{D}$ ΑE ΑF AG AΗ ΑI ΑJ ΑK FOREIGN PATENT DOCUMENTS EXAMINER SUB-CLASS TRANSLATION COUNTRY DOCUMENT NUMBER DATE INITIAL Yes No ALYes No ΑM Yes No AN Yes No AO Yes No AP OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Grindly, N.D.F., and Kelley, W.S., "Effects of Different Alleles of the E. coli K12 polA Gene on the Replication of Non-transferring Plasmids," Molec. Gen. AR 93 Genet. 143:311-318, Springer Verlag (1976). Gronostajski, R.M., and Sadowski, P.D., "The FLP Protein of the 2-micron Plasmid of Yeast. Inter- and Intramolecular Reactions, " J. Biol. Chem. AS <u>93</u> 260:12328-12335, The American Society of Biological Chemists, Inc. (1985). Haffter, P., and Bickle, T.A., "Enhancer-independent mutants of the Cin recombinase have a relaxed topological specificty, " EMBO J. 7:3991-3996, IRL ΑT <u>93</u> Press Limited (1988). DATE CONSIDERED 22 EXAMINER 2004

PE CITY OF TRACE OF PERSONS IN

FORM PTO-1449

.....

ATTY. DOCKET NO. 0942.5000001/RWE/BJD/JKM

APPLICATION NO. 09/695,065

Page 10 of 21

APPLICANT Brasch et al

	SEC.	OND SU	PPLEMENTAL		Brasch et al.					
INFO	ORMATIC	N DISC	CLOSURE STATE	MENT	FILING DATE GROUP October 25, 2000 1682					
				y.s. P		DOCUMENTS				
XAMINER					NAME	7	CLASS	SUB-CLASS	FILING DATE	
NITIAL	 	Docu	MENT NUMBER	DATE	NAME			000 02.00	1323113 211-	
	AA			 		\ <i> </i>		 		
	AB	- 				\ /				
	AC	┼~~			-	\ /		F	ECEIVE V 18 2003	
	AD	 			+	-\/			CEIVE	
	AE AF					- X -		JU	W -	
	AG	+				/\		2/	8 2002	
	AH	┼╌				7		ECH CE	17-	
	AI	-		<u> </u>		/		- VL/	TER 16001	
	AJ	+-		1	7				TER 1600/290	
	AK	 			1					
	1 ***	<u> </u>		FOREIGN	PATENT	DOCUMENTS				
XAMINER	\top						07.3.00	SUB-CLASS	TRANSLATION	
NITIAL		DOCU	JMENT NUMBER	DATE	COU	NTRY	CLASS	SUB-CLASS	Yes	
	AL				1	\ /			No	
	AL								Yes	
	AM					_\/		ļ	No	
					ļ	X	į		Yes No	
	AN			 	_	/\			Yes	
	AO_	_		l					No	
			-			/			Yes No	
	AP				\				NO	
		0.	THER (Includi:	ng Author,	Title,	Date, Pertinent	Pages, et	c-)		
N	AR	94	Antirrhinum	madus, reve	als ho	analysis of Tam omologies to the A ver Academic Publ	Ac element	; from maize	ment from ," Plant	
	AS	94	Recombinant	Proteins wa	ith a N	c Approach to Fac Novel Metal Chela Company (1988).	ilitate Pi te Adsorbe	urification ent," <i>Bio/Te</i>	of chnology 6:	
	AT	94	Hoess, R.H., Cre with the National Aca	e recombini:	ng site	., "Interaction o e loxP," Proc. Na (1984).	f the bac	teriophage P <i>Sci. USA 81</i>	1 recombinase:1026-1029,	
EXAMINER			Tule	(h			DATE	CONSIDERED	3/12/10	

OF E TOTAL TOTAL STREET

Page 11 of 21

FORM PTO-1449

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0942.5000001/RWE/BJD/JKM

APPLICATION NO.
09/695,065

APPLICANT
Brasch et al.

FILING DATE

GROUP

					October 25, 2000		1682	
				U.S. PA	TENT DOCUMENTS			
EXAMINER INITIAL		DOCT	MENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA				1			
	АВ							
	AC	<u> </u>					- M	CEIVE
	AD							[\C \/ \c
	AE						JUA	1.51
	AF				X		750	ER 1600/2900
	AG						IECH CEN	
	AH						02/1/	FR 1600
	AI							1000/2900
	AJ				1			
	AK						_	
				FOREIGN 1	PATENT DOCUMENTS			
EXAMINER								
INITIAL		DOC	MENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	7.	1			1 \			Yes
	AL	+			 			No
	AM							Yes No
	AN				X			Yes No
	AO		- .					Yes No
								Yes No
	AP		TUPD (Tooludio	- Author W	itle Date Destinent De		<u> </u>	I NO
		T 0.	INEK (Includin	g Author, Ti	itle, Date, Pertinent Pa	iges, etc		
N	AR	<u>95</u>	by bacteriop	hage P1. Map r the invers	e-specific, conservativ ping of the recombinase ion of the C segment."	gene ci	n and the co	cossover
	AS	<u>95</u>	genetics in	Gram-negativ	vide-host-range suicide re bacteria: inactivatio 19:137-141, Elsevier Sci	n of the	blaA gene o	
	AT	<u>95</u>		d efficient	of the human elongation expression system, " Gen			
EVANTAGE		Ь	1			DAME	CONSIDERED	7/-1
EXAMINER		Æ	Mule	u		DATE	CONSIDERED	7/22/20

O PE STATE TRACE

Page 12 of 21

FORM PTO-1449

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 0942.5000001/RWE/BJD/JKM	APPLICATION NO. 09/695,065
APPLICANT Brasch et al.	
FILING DATE October 25, 2000	GROUP 1682

					October 25, 2000		682	
				υ.s. P	ATENT DOCUMENTS		1	
XAMINER NITIAL		DOCU	MENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AΛ	<u> </u>		<u> </u>			ļ	<u>.</u>
	AB							
	AC			<u> </u>				b~_
	AD			 			-	ICE/II
	AE	 					 	RECEIVE W Y 8 2003 WTER 1600/29
	AF	 			\			W 1 8 200
<u></u>	AG	 					ECHO	1 - 2003
	AH						116	NIER 1600
	AI AJ							1 ,000/29
	AK							
	AA			FOREIGN	PATENT DOCUMENTS			
KAMINER	T	T						
IITIAL		DOCU	MENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	1,,,				\ ,		İ	Yes No
	AL_							Yes
	AM							No.
					X			Yes
	AN	_			- /\			Yes
	AO							No
								Yes No
	AP							<u> </u>
N	AR	96	rolb A F	and Siddel	Title, Date, Pertinent 1, S.G., "Genomic targe 60, Elsevier Science B.	ting with	an MBP-Cre	fusion
	AS	96	Krautwald, & Agonistic Ac 720-727, Acc	ctivity in	carini, M. "Bacterially Its Monomeric Form," Ba s (1993).	/ Expresse	d Murine CSI ophys. Res.	?-1 Possesses Соттип. 192:
	AT	96	replication	terminus r	ratt, D.H., "Site-spectegion of <i>Escherichia co</i> 1570, Oxford University	olí: funct	ional rep⊥a¢	the cement of
27.2 147.217.373			1			DATE	CONSIDERED	3/22/20
EXAMINER			~ h	ili u	t			100

OF E TOTAL TRAFFIC

Page 13 of 21

FORM PTO-1449

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

		APPLICATION NO. 09/695,065
ı	APPLICANT Brasch et al.	

GROUP

EXAMINER INITIAL		ECEIVE
INITIAL DOCUMENT NUMBER DATE NAME CLASS AA AB AB AC AC AD AB AB AB AB AB AB AB AB AB AB AB AB AB	F	ECEIVE
AB AC AD AD AB AE AF AF AG AG AH AI AI AJ AX AV AV AC AC AC AC AC AC AC AC AC AC AC AC AC	TECH CE	ECEIVE
AC AD AD AE AF AF AG AH AI AJ AK FOREIGN PATENT DOCUMENTS EXAMINER INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS AL AM AN AN AN AN	TECH CE	ECEIVE
AD AE AF AG AG AH AI AJ AX AK FOREIGN PATENT DOCUMENTS EXAMINER NITIAL AL AM AN AN AN AN AN AN AN AN AN AN AN AN AN	TECH CE	ECEIVE
AE AF AG AH AI AJ AK FOREIGN PATENT DOCUMENTS EXAMINER NITIAL DOCUMENT NUMBER DATE COUNTRY CLASS AN AN AN AN AN	TECH CE	W 1 8 2007
AF AG AH AI AI AJ AK FOREIGN PATENT DOCUMENTS XAMINER NITIAL DOCUMENT NUMBER DATE COUNTRY CLASS AM AM AN AN AN AN	TECH CEI	N 1 8 2002
AG AH AI AI AJ AK FOREIGN PATENT DOCUMENTS XAMINER NITIAL AL AM AN AN AN AN AN AD AD AD AD AD AD AD AD AD AD AD AD AD	TECH CE	1 8 2002
AH AI AJ AK FOREIGN PATENT DOCUMENTS XAMINER NITIAL DOCUMENT NUMBER DATE COUNTRY CLASS AL AN AN AN AN AO AP	IECH CE	\$007
AI AJ AK FOREIGN PATENT DOCUMENTS XAMINER NITIAL AL AM AN AN AN AO AP	1 00/	·
AJ AK FOREIGN PATENT DOCUMENTS XAMINER NITIAL DOCUMENT NUMBER DATE COUNTRY CLASS AL AM AN AN AN AN AN AP		WERTON
FOREIGN PATENT DOCUMENTS XAMINER NITIAL DOCUMENT NUMBER DATE COUNTRY CLASS AL AM AN AN AN AO AP	ŧ.	1000/290
XAMINER NITIAL DOCUMENT NUMBER DATE COUNTRY CLASS AL AM AN AN AP		• • • • • • • • • • • • • • • • • • • •
AL AN AN AO AP		
NITIAL DOCUMENT NUMBER DATE COUNTRY CLASS AL AM AN AO AP		
AL AM AN AO AP	.	
AN AO AP	S SUB-CLASS	
AN AO AP	i	Yes
AN AO AP		Yes
AO AP	_	No
AO AP		Yes
AP (No
AP (1	Yes
	 	Yes
OTHER (Including Author, Title, Date, Pertinent Pages, e		No
	c.)	<u> </u>
Li, ZW., et al., "Generation of mice with a 200-kb a gene deletion by Cre recombinase-mediated site-specifiembryonic stem cells," Proc. Natl. Acad. Sci. USA 93:6 Academy of Sciences (1996).	c recombinat	cion in
Lu, F., and Churchward, G., "Conjugative transposition contains two independent DNA binding domains that reconsequences," EMBO J. 13:1541-1548, Oxford University Pr	gnize differ	grase ent DNA
AT 97 Malynn, B.A., et al., "The scid Defect Affects the Fin Immunoglobulin VDJ Recombinase Mechanism," Cell 54:453	al Step of t ~460, Cell P	the Press (1988).
EXAMINER OLL CU DATE		Block

FILING DATE



Page 14 of 21

	0942.5000001/RWE/BJD/
DM DTO-1449	

ATTY. DOCKET NO. APPLICATION NO. 0942.5000001/RWE/BJD/JKM 09/695,065

FORM PTO-1449

SECOND SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT

FILING DATE

FILING DATE GROUP October 25, 2000 1682

			HODOKE DIATE		October 25, 20	00	1682	
				U.S. P.	ATENT DOCUMENTS			
XAMINER NITIAL		DOCU	MENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA							
	AB						-Dr	S 2003
	AC				\ \ \ \ \ \ \ \ \ \ \ \ \ 		100	CEME
	AD				 		1,	LIVED
	AE	ļ		<u> </u>			JUN	1 3 3
	AF			ļ	X		Trouge	1003
	AG_				 		CENTE	b 10.
·	AH	ļ			 		TECH CENTER	1600/2900
	AI	ļ			+ / - \		 	72000
	AJ	ļ		ļ			-	
	AK							<u> </u>
				FOREIGN	PATENT DOCUMENTS			
XAMINER NITIAL		DOCU	MENT NUMBER	DATE	COUNTRY	CLASS	S SUB-CLASS	TRANSLATION
					\			Ye N
	AL				 	-	- 	Ye
	AM							N
	NA				X			Ye N
	AO							Yes
					(\			Yes
	AP			- 1	itle, Date, Pert	inont Dages of	+a)	I
n	AR	98	Maniatis. T.	, et al., " Science 23	Regulation of In 6:1237-1245, Ame	ducible and Tis	ssue-Specific	Gene dvancement o
	AS	98	insertion se	quence pres	la Cruz, F., "Sp ent in α-haemoly lackwell Scienti	sin plasmids of	Escherichia	S91, an coli," Mol.
	AT	98	Recombinase	Locus in Tn	tructural and Fu 21 and Related β Society for Mic	-Lactamase Tran	sposons, "J.	f tnpI, a Bacteriol.
XAMINER		<u>l -</u> .	710	h cu		DATE	CONSIDERED	3/22/2

Page 15 of 21

CATENT & TRUE

EXAMINER

FORM PTO-1449

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 0942.5000001/RWE/BJD/JKM	APPLICATION NO. 09/695,065
APPLICANT Brasch et al.	

GROUP

DATE CONSIDERED

TWI	FORMATI	ON DIE	SCLOSURE STATE	MENI	FILING : October	25, 2000		ROUP 1682	
				v.s. 1	PATENT DOCU	MENTS			
EXAMINER INITIAL		DOC	UMENT NUMBER	DATE	NAME		CLASS	SUB-CLASS	FILING DATE
	AA				1				
	АВ								
	AC							DI	-
	AD							17	CFILE
	AE	_				\mathcal{L}			- VE
	AF					_ \		201/	100
	AG					X		TECHA	CEIVE
	AH		· <u></u>					CENT	FR 1600/2900
	AI								1600/2000
	AJ								7-000
	AK								
				FOREIGN	PATENT DO	UMENTS			
EXAMINER									
INITIAL	_	DOC	UMENT NUMBER	DATE	COUNTRY		CLASS	SUB-CLASS	TRANSLATION
	AL				Ì	•			Yes No
	12	_				\			Yes
	AM					\ /			No
						$\overline{}$			Yes
	AN			ļ		- 			No
	AO					/\			Yes No
	110	+		<u> </u>		/ \ 			Yes
_	AP			1		(\			No
		. 0	THER (Includin	g Author.	Title, Date	. Pertinent P	ages, etc	.)	·
N	AR	99	Metcalf, W.W	., et al., Zα for Clor	"Condition ning, Mutag	ally Replicati enesis, and Al	ve and Co	onjugative F	
	AS	99	affinity chro	Meyer-Leon, L., et al., "Purification of the FLP site-specific recombinase by affinity chromatography and re-examination of basic properties of the system," Nucl. Acids Res. 15:6469-6488, IRL Press Limited (1987).					
	AT	99	Mizushima, S vector," Nuc	., and Naga 1. Acids Re	ata, S., "p: es. 18:5322	EF-BOS, a powe , Oxford Unive	rful mamm	malian expre ess (1990).	ssion

FILING DATE



Page 16 of 21

FORM PTO-1449

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.	APPLICATION NO.
0942.5000001/RWE/BJD/JKM	09/695,065
APPLICANT	
Brasch et al.	

GROUP

FILING DATE October 25, 2000 1682 U.S. PATENT DOCUMENTS EXAMINER CLASS SUB-CLASS FILING DATE INITIAL DOCUMENT NUMBER DATE NAME AA ABAC AD ΑE AF AG AΗ ΑI ΑJ AΚ FOREIGN PATENT DOCUMENTS EXAMINER CLASS SUB-CLASS TRANSLATION COUNTRY LAITINI DOCUMENT NUMBER DATE No No Yes No Yes No ΑO Yes No ΑP OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Nagy, A., "Cre Recombinase: The Universal Reagent for Genome Tailoring," AR 100 Genesis 26:99-109, Wiley-Liss, Inc. (February 2000). Odell, J.T., et al., "Seed-Specific Gene Activation Mediated by the Cre/lox Site-Specific Recombination System," Plant Physiol. 106:447-458, American AS 100 Society of Plant Physiologists (1994). Pal, S.K., et al., "P1 Plasmid Replication. Role of Initiator Titration in Copy Number Control," J. Mol. Biol. 192:275-285, Academic Press (1986). AT 100 2WY DATE CONSIDERED $\gamma \nu$ EXAMINER

EXAMINER

Page 17 of 21

FORM	PTO-	14	49
------	------	----	----

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 0942.5000001/RWE/BJD/JKM	APPLICATION NO. 09/695,065
APPLICANT Brasch et al.	

DATE CONSIDERED -

	SEC	COND S	UPPLEMENTAL		Blasti et al.				
INF			CLOSURE STATE	MENT	FILING DATE		GROUP		
	=				October 25, 2000 1682				
		Т		U.S. PA	TENT DOCUMENTS	- 	Γ	T	
EXAMINER INITIAL	<u> </u>	DOC	UMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE	
	AA	-		ļ	 		-		
•	AB	 		ļ	 		TEC		
	AC	-		ļ	 \-/			* 2003	
	AD	-		ļ	 		JUN,		
	AE			<u> </u>	 			8 2003	
	AF	_			<u> </u>		ECH CENTE		
	AG				/ / /		PLIVIE	1600/2900	
	AH	.			/_			-00/2900	
	AI	Ц							
	AJ	_		<u> </u>					
	AK			<u> </u>	\				
			·	FOREIGN I	ATENT DOCUMENTS				
EXAMINER				1					
INITIAL		DOCU	JMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION	
	AL				Λ /			Yes No	
		1			 	***		Yes	
	AM				<u> </u>			No	
	AN							Yes No	
	AO							Yes No	
		†			 			Yes	
	AP							No	
		0.	THER (Includin	g Author, Ti	tle, Date, Pertinent	Pages, etc	.)		
M	AR	101	Qin, M., et a plant chromos of Sciences	somes," Proc	combinase-mediated sit . Natl. Acad. Sci. USA	ce-specific	recombinat	ion between aal Academy	
	AS	101	Qin, M., et a lox recombina (1995).	al., "Site-s ation," <i>Nucl</i>	pecific cleavage of ch . Acids Res. 23:1923-1	iromosomes 1927, Oxfoi	<i>in vitro</i> th d Universit	rough Cre- y Press	
	АТ	101	Recd, R.R., Vitro System,	Transposon-1 " Cell 25:7	Mediated Site-Specific 13-719, The MIT Press	: Recombina (1981).	tion: A Def	ined in	

OIPE OF TRANSPORT

Page 18 of 21

FORM PTO-1449

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 0942.5000001/RWE/BJD/JKM

APPLICATION NO. 09/695,065

APPLICANT Brasch et al.

FILING DATE October 25, 2000 GROUP 1682

					October 25, 2000		1682	
				U.S. PA	TENT DOCUMENTS			
EXAMINER								
NITIAL	+	Doct	MENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA ND							
	AB AC				+ + + +			VECT.
	AD	+			 			NECEIVE
	AE	 			 		30	VN 7
	AF	1			 		TEN	8 7003
	AG				 		TECH CE	MITCO
	АН							1600/20
	AI							WTER 1600/29
	AJ							
	AK				,			
				FOREIGN 1	PATENT DOCUMENTS			
XAMINER								
MITIAL	-	DOCU	MENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL	•				ĺ		Yes No
					1 7			Yes
	AM	ļ			 			No
	AN				X			Yes No
		-			 			Yes
	AO		<u></u>	:				No
	1				/ \			Yes
	AP	<u> </u>			itle, Date, Pertinent	<u> </u>	<u> </u>	No
N	AR	102	spoIVC Encode	es a Protein	cisA Cistron of Bacilla Homologous to a Site B, American Society for	-Specific :	Recombinase,	" J.
	AS	102	Rat Angiotens	sin II AT, R	struction of Isogenic (eceptors by Cre-Mediat Methods in Enzymology	ed Site-Sp	ecific Reco	mbination,"
$\sqrt{}$	AT	102	biosynthetic	genes by fu	ning of three human mul notional complementat: 2916-2920, National Ad	ion of year	st mutations	"," Proc.
XAMINER	<u> </u>		1	le in		DATE (CONSIDERED	3/2/202

JUN 1 TOUR WEST

Page 19 of 21

FORM PTO-1449

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 0942.5000001/RWE/BJD/JKM	APPLICATION NO. 09/695,065
APPLICANT Brasch et al.	
FILING DATE October 25, 2000	GROUP 1682

					October 25, 2000	<u> </u>	1682	
				Ŭ.S. P.	ATENT DOCUMENTS			
EXAMINER INITIAL		DOCU	MENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA							
	AВ	<u> </u>	····	<u> </u>	<u> </u>			b ~
	AC				\			W 1 8 ZOO3
	AD			<u></u>			<u> </u>	-/VI
	AE				/		00	N 1 8 2003 VTER 1600/29
	AF				X		IECHO	<003
	AG	<u> </u>	····				- TUE	VIFO
	AH							1600/20
	AI							723(
<u></u>	AJ				/			ļ
	AK			<u> </u>				<u> </u>
				FOREIGN	PATENT DOCUMENTS			· ·
XAMINER	İ	DOG!	TANGSARD ATTIMES INC.	DAME	COUNTRY	CLASS	GITD OF NOO	mpanay amion
NITIAL		DOCC	MENT NUMBER	DATE	COUNTRI	CLIASS	SUB-CLASS	TRANSLATION
	AL				\ .			Yes
	1		* 4					Yes
	AM		· · · · · · · · · · · · · · · · · · ·		\ <u>/</u>		<u> </u>	No
	AN				1 X			Yes No
								Yes
	AO	+			 			No.
	AP				/ \			No.
		01	THER (Includin	g Author, T	itle, Date, Pertinent	Pages, etc	1.)	
W	AR	103	interchangeal	bility of sp	architectural elements pecific and non-specif versity Press (1994).	ic DNA bin		
	AS	103	Stark, W.M., Changes in t (1989).	et al., "Si he Forward a	te-Specific Recombina and Reverse Reactions,	tion by Tn " Cell 58:	3 Resolvase 779-790, Cel	Topological
V	ΛT	103	Stenzel, T.T to Bent DNA a 717, Cell Pro	at the Origi	The Integration Host n of Replication of t	Factor of he Plasmid	Escherichia pSC101," <i>Ce</i>	coli Binds ell 49:709-
XAMINER	, L		11	, le c		DATE	CONSIDERED .	3/12/100
			UL		<u> </u>	i		1 0- 100

Page 20 of 21

FORM PTO-1449

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0942.5000001/RWE/BJD/JKM

APPLICANT
Brasch et al.

FILING DATE

APPLICATION NO.
09/695,065

APPLICANT
GROUP

	OAN HILL	<u> </u>	SCLOSURE STATE		October 25, 2000		GROUP 1682	
				U.S. PA	TENT DOCUMENTS			
EXAMINER INITIAL		DOC	UMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA							
	АВ							77-
	AC			<u> </u>				JUN 1.8
	AD	<u> </u>						
	AE	ļ			 			JUNI
	AF	 			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		TE	CH CENTER
	AG	<u> </u>					14	4H CENTER
····	HA	ļ						TITER
	AI	<u> </u>						
	AJ				/ /			
	AK		<u></u>					
·		_		FOREIGN F	PATENT DOCUMENTS			
XAMINER NITIAL		DOCT	JMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL				\			Ye
					1 /			Yes
	AM				+			No.
	AN	-			$+$ \wedge			No.
	AO							Yes No
	AP							Yes
	***	O'	THER (Includin	g Author. Ti	tle, Date, Pertinent	Pages, etc	.)	
N	AR	104	Sugiura, S., Requirement	et al., "Mi	nimal Essential Origi Downstream of Iterons robiology (1993).	n of Plasm	id pSC101 Re	eplication: 5993-6001,
	AS	104	Gene for Poly	ypeptide Cha:	olation and Character in Elongation Factor- Biochemistry and Mol	1α," J. Bi	ol. Chem. 26	4:5791-5798,
\int	AT	104	Voss, S.D., specific transcription (1986)	nscriptional	role of enhancers in control," Trends Bio	the regula	ation of cel	l-type- Elsevier
XAMINER		<u> </u>	Tul	L ch		DATE (CONSIDERED	3/12/20

JUN 1 7 2003 JUN 1 7 2003 PER TRANSFORM

Page 21 of 21

FORM PTO-1449

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 0942.5000001/RWE/BJD/JKM 09/695,065

APPLICANT
Brasch et al.

FILING DATE GROUP
October 25, 2000 1682

					October 25, 2000		1682	
				U.S. PA	TENT DOCUMENTS			
EXAMINER INITIAL		DOCU	MENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA							
	AB			ļ <u>.</u>				
	AC	<u> </u>			\\		47	ECEIVE W 1 8 2003
	AD				 		 	IVE
	AE				 		J.	W 1822
	AF	4		ļ	 		TECHO	*** 2003 VTER 1600/29
	AG				 /\	<u> </u>	LON CE	VIEDIO
	АН				 			1600/29
	AI	-			 			7-00
	AJ	-				-		
	AK				<u> </u>		<u> </u>	
				FOREIGN P	ATENT DOCUMENTS			1
EXAMINER NITIAL		DOCU	MENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	T.,				1			Yes No
	AL			<u> </u>	 \ 			
	AM	}						Yes No
7.77					V -			Yes
	AN	 			 			No Yes
	уо							No
	AP					}		Yes No
	1 ***	07	HEP (Includin	a Author Ti	tle, Date, Pertinent Pa	ges. etc	·_)	'
N	AR	105	essential for	r translatio	a Suppressor fo a <i>HIS4</i> n initiation and affect pring Harbor Laboratory	s UV res	istance in y	tation, is /east," <i>Genes</i>
	AS							
	AT							
EXAMINER		J	Tul	i in		DATE	CONSIDERED	3/22/20